

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08177498

PUBLICATION DATE : 09-07-96

APPLICATION DATE : 20-12-94

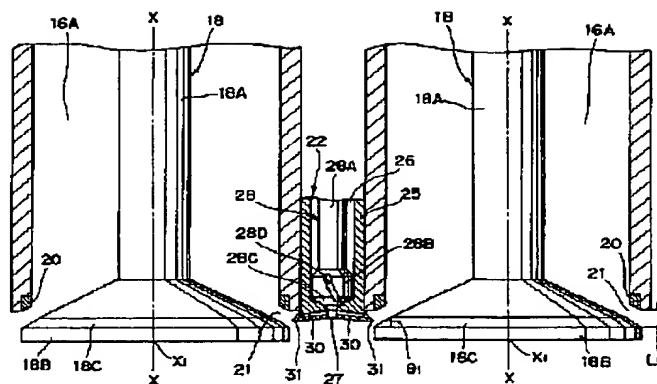
APPLICATION NUMBER : 06316135

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : OGITA HIROKO;

INT.CL. : F02B 23/10 F02B 23/08 F02M 61/14  
 F02M 61/18 F02M 61/18 F02M 69/00  
 F02M 69/04

TITLE : DIRECT INJECTION AND  
 SPARK-IGNITION TYPE INTERNAL  
 COMBUSTION ENGINE



ABSTRACT : PURPOSE: To prevent generation of fuel wall flow, so as to improve exhaust emission by eliminating fuel remaining in an injection hole after fuel injection is completed by intake air flow to flow into a combustion chamber from an intake port.

CONSTITUTION: A fuel injection valve 22 is positioned between a pair of intake ports 16A and provided on a cylinder head. Approximately fan-like intake air flow introducing passages 30 orientating toward the center points  $X_1$  of respective intake valves 18 from an injection hole 27 are formed on the tip both side surfaces of an injection nozzle 25, and a guide parts 31 adjacent to valve heads 18B are provided on the opening parts on the intake valve sides of the intake air flow introducing passages 30. Therefore, the intake air flow to flow along the valve heads 18B is partially allowed to flow into the intake air flow introducing passages 30 and eliminates and cleans remaining fuel in the injection hole 27.

COPYRIGHT: (C)1996,JPO

BEST AVAILABLE COPY